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2	79	"search result" near3 query near3 database	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 13:58
3	50	("search result" near3 query near3 database) and (result with select\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 14:02
4	3	((("search result" near3 query near3 database) and (result with select\$3)) and (select\$3 near3 result near query)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 14:07
5	20	((("search result" near3 query near3 database) and (result with select\$3)) and ((rank\$3 or organiz\$3) with result)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 14:35
6	9	"6321228"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 14:35
7	6	"6321228" and (result with database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:44
8	13156	"previously selected"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:51
9	548	"previously selected" same database	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:46
11	26	"previously selected" same (query near3 database)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:47
13	1	("previously selected" same (query near3 database)) and (search\$3 near3 result near3 list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:47
10	26	("previously selected" same database) and (search\$3 near3 result near3 list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:47

14	67	("search result" with database) and "previously selected"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:52
16	27	((("search result" with database) and "previously selected") and (result near3 list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:51
15	14	((("search result" with database) and "previously selected") and (result near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:52
17	0	((("search result" with database) and "previously selected") and (alternat\$3 near result near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:53
18	0	("search result" with database) and (alternat\$3 near result near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:53
19	32	("search result" with database) and (alternat\$3 with result with list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:55
20	62	"previously selected" and (alternat\$3 near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:58
21	22	("previously selected" and (alternat\$3 near list)) and (("same" or similar with (query or search\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 15:57
22	3	((("search result" with database) and "previously selected") and (alternat\$3 near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 16:10
23	26	("search result" with database) and (alternat\$3 near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 16:12
24	3	"previously selected" and (("search result" with database) and (alternat\$3 near list))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 16:11
26	44	("search result" with database) and (alter\$ near list)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 16:21
27	3	"previously selected" and (("search result" with database) and (alter\$ near list))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 16:12

28	4	("search result" with database) and "alternate list"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/21 16:22
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Relevance scale ☐ ☐ ☐ ☐ ☐**1 Machine learning in automated text categorization**

Fabrizio Sebastiani

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1Full text available: pdf(524.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification**2 An architecture for voice dialog systems based on prolog-style theorem proving**

Ronnie W. Smith, Alan W. Biermann, D. Richard Hipp

September 1995 **Computational Linguistics**, Volume 21 Issue 3Full text available: pdf(2.76 MB) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A pragmatic architecture for voice dialog machines aimed at the equipment repair problem has been implemented. This architecture exhibits a number of behaviors required for efficient human-machine dialog. These behaviors include: (1) problem solving to achieve a target goal (2) the ability to carry out subdialogs to achieve appropriate subgoals and to pass control arbitrarily from one subdialog to another (3) the use of a user model to enable useful verbal exchanges and to inhibit unnecessary ones(...

3 Fuzzy queries in multimedia database systems


Ronald Fagin

May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**Full text available: pdf(1.42 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Technical papers: dynamic program analysis: Semantic anomaly detection in online data sources

Orna Raz, Philip Koopman, Mary Shaw

May 2002 **Proceedings of the 24th international conference on Software engineering**

Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Much of the software we use for everyday purposes incorporates elements developed and maintained by someone other than the developer. These elements include not only code and databases but also dynamic data feeds from online data sources. Although everyday software is not mission critical, it must be dependable enough for practical use. This is limited by the dependability of the incorporated elements. It is particularly difficult to evaluate the dependability of dynamic data feeds, because they ...

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Relevance scale ☐ ☐ ☐ ☐ ☐**1 Query evaluation techniques for large databases**

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

2 WSQ/DSQ: a practical approach for combined querying of databases and the Web

Roy Goldman, Jennifer Widom

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: pdf(223.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present WSQ/DSQ (pronounced "wisk-disk"), a new approach for combining the query facilities of traditional databases with existing search engines on the Web. WSQ, for *Web-Supported (Database) Queries*, leverages results from Web searches to enhance SQL queries over a relational database. DSQ, for *Database-Supported (Web) Queries*, uses information stored in the database to enhance and explain Web searches. This paper focuses primarily on WSQ, describing a simple, lo ...


3 Minimum cuts in near-linear time

David R. Karger

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available:

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

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We significantly improve known time bounds for solving the minimum cut problem on undirected graphs. We use a "semiduality" between minimum cuts and maximum spanning tree packings combined with our previously developed random sampling techniques. We give a randomized (Monte Carlo) algorithm that finds a minimum cut in an m -edge, n -vertex graph with high probability in $O(m \log^3 n)$ time. We also give a ...

Keywords: Monte Carlo algorithm, connectivity, min-cut, optimization, tree packing

4 Top- k selection queries over relational databases: Mapping strategies and performance evaluation

Nicolas Bruno, Surajit Chaudhuri, Luis Gravano

June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2

Full text available:  [pdf\(1.64 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


In many applications, users specify target values for certain attributes, without requiring exact matches to these values in return. Instead, the result to such queries is typically a rank of the "top k " tuples that best match the given attribute values. In this paper, we study the advantages and limitations of processing a top- k query by translating it into a single range query that a traditional relational database management system (RDBMS) can process efficiently. In particular, ...

Keywords: Multidimensional histograms, top- k query processing

5 Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases

Christian Böhm, Stefan Berchtold, Daniel A. Keim

September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Full text available:  [pdf\(1.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

6 Research sessions: similarity and matching: Continually evaluating similarity-based pattern queries on a streaming time series

Like Gao, X. Sean Wang

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available:  [pdf\(1.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In many applications, local or remote sensors send in streams of data, and the system needs to monitor the streams to discover relevant events/patterns and deliver instant reaction correspondingly. An important scenario is that the incoming stream is a continually

appended time series, and the patterns are time series in a database. At each time when a new value arrives (called a time position), the system needs to find, from the database, the nearest or near neighbors of the incoming time series ...

7 Data streams and time-series: Evaluating continuous nearest neighbor queries for streaming time series via pre-fetching

Like Gao, Zhengrong Yao, X. Sean Wang

November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**

Full text available:  pdf(231.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


For many applications, it is important to quickly locate the nearest neighbor of a given time series. When the given time series is a streaming one, nearest neighbors may need to be found continuously at all time positions. Such a standing request is called a *continuous nearest neighbor query*. This paper seeks fast evaluation of continuous queries on large databases. The initial strategy is to use the result of one evaluation to restrict the search space for the next. A more fundamental i ...

Keywords: continuous query, nearest neighbor, streaming time series

8 Multidimensional divide-and-conquer

Jon Louis Bentley

April 1980 **Communications of the ACM**, Volume 23 Issue 4

Full text available:  pdf(1.73 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Most results in the field of algorithm design are single algorithms that solve single problems. In this paper we discuss multidimensional divide-and-conquer, an algorithmic paradigm that can be instantiated in many different ways to yield a number of algorithms and data structures for multidimensional problems. We use this paradigm to give best-known solutions to such problems as the ECDF, maxima, range searching, closest pair, and all nearest neighbor prob ...

Keywords: algorithmic paradigms, analysis of algorithms, closest-point problem, computational geometry, data structures, empirical cumulative distribution functions, maxima problems, multidimensional searching problems, range searching

9 Machine learning in automated text categorization

Fabrizio Sebastiani

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  pdf(524.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

10

Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín
September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Full text available:  pdf(916.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cross ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

11 Measuring praise and criticism: Inference of semantic orientation from association

Peter D. Turney, Michael L. Littman

October 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 4

Full text available:  pdf(640.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The evaluative character of a word is called its *semantic orientation*. Positive semantic orientation indicates praise (e.g., "honest", "intrepid") and negative semantic orientation indicates criticism (e.g., "disturbing", "superfluous"). Semantic orientation varies in both direction (positive or negative) and degree (mild to strong). An automated system for measuring semantic orientation would have application in text classification, text filtering, tracking opinions in online discussions ...

Keywords: latent semantic analysis, mutual information, semantic association, semantic orientation, text classification, text mining, unsupervised learning, web mining

12 The state of the art in distributed query processing

Donald Kossmann

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Full text available:  pdf(455.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the state ...

Keywords: caching, client-server databases, database application systems, dissemination-based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

13 System R: relational approach to database management

M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson

June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

Full text available:  pdf(3.18 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

14 Technical reports

SIGACT News Staff


January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available:  pdf(5.28 MB) Additional Information: [full citation](#)

15 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available:  pdf(213.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

16 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(613.63 KB)  html(2.78 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Learning search engine specific query transformations for question answering

Eugene Agichtein, Steve Lawrence, Luis Gravano

April 2001 **Proceedings of the tenth international conference on World Wide Web**


Full text available:  pdf(205.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: information retrieval, query expansion, question answering, web search

18 Data structures and algorithms for nearest neighbor search in general metric spaces

Peter N. Yianilos

January 1993 **Proceedings of the fourth annual ACM-SIAM Symposium on Discrete algorithms**

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: associative memory, clustering, computational geometry, metric space, nearest neighbor, pattern recognition, randomized methods

19 Index-driven similarity search in metric spaces

Gisli R. Hjaltason, Hanan Samet

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available:  pdf(650.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Similarity search is a very important operation in multimedia databases and other database applications involving complex objects, and involves finding objects in a data set S similar to a query object q , based on some similarity measure. In this article, we focus on methods for similarity search that make the general assumption that similarity is represented with a distance metric d . Existing methods for handling similarity search in this setting typically fall into one of ...

Keywords: Hierarchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

20 Performance issues: A heuristic approach to attribute partitioning

Michael Hammer, Bahram Niamir

May 1979 **Proceedings of the 1979 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(1.22 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#)

One technique that is sometimes employed to enhance the performance of a database management system is known as attribute partitioning. This is the process of dividing the attributes of a file into separately stored subfiles. By storing together those attributes that are frequently requested together by transactions, and by separating those that are not, attribute partitioning can reduce the number of pages that are transferred from secondary storage to primary memory in the processing of a tran ...

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1 Visualization of WWW-search results

Mann, T.M.;

Database and Expert Systems Applications, 1999. Proceedings. Tenth International Workshop on , 1-3 Sept. 1999
Pages:264 - 268[\[Abstract\]](#) [\[PDF Full-Text \(132 KB\)\]](#) **IEEE CNF**

2 Handwriting recognition using HMMs and a conservative level building algorithm

Procter, S.; Illingworth, J.;

Image Processing and Its Applications, 1999. Seventh International Conference (Conf. Publ. No. 465) , Volume: 2 , 13-15 July 1999
Pages:736 - 739 vol.2[\[Abstract\]](#) [\[PDF Full-Text \(240 KB\)\]](#) **IEEE CNF**

3 Supporting ancillary values from user defined functions in Oracle

Ravi Murthy; Seema Sundara; Nipun Agarwal; Hu, Y.; Chorma, T.; Jagannath Srinivasan;

Data Engineering, 2003. Proceedings. 19th International Conference on , 5-8 2003

Pages:151 - 162

[\[Abstract\]](#) [\[PDF Full-Text \(610 KB\)\]](#) **IEEE CNF**

4 Genetic algorithm restricted by tabu lists in data mining

Lopes, F.M.; Pozo, A.T.R.;

Computer Science Society, 2001. SCCC 2001. Proceedings. XXI International Conference of the Chilean , 7-9 Nov. 2001

Pages:178 - 185

[\[Abstract\]](#) [\[PDF Full-Text \(128 KB\)\]](#) **IEEE CNF**

5 Evaluating refined queries in top-k retrieval systems

Kaushik Chakrabarti; Ortega-Binderberger, M.; Mehrotra, S.; Porkaew, K.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 16 , Issue:
2 , Feb. 2004
Pages:256 - 270

[\[Abstract\]](#) [\[PDF Full-Text \(596 KB\)\]](#) **IEEE JNL**

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1 Deflating the dimensionality curse using multiple fractal dimensions

Pagel, B.-U.; Korn, F.; Faloutsos, C.;

Data Engineering, 2000. Proceedings. 16th International Conference on , 29 F
March 2000

Pages:589 - 598

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) **IEEE CNF**

2 Efficient query by image content for very large image databases

Barber, R.; Equitz, W.; Flickner, W.; Niblack, W.; Petkovic, D.; Yanker, P.;
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